

New York State Department of Transportation

Yellow Flag NB2228W017

By: Ben Colangelo

Flag Date: March 28, 2022

Superseding Information:

This flag supersedes: YF NB2122W023

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: March 28, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: April 19, 2022

Reviewed By: Robert Kemp

Date: May 15, 2022

Attachments: 5

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 196			
	107 - Steel Open Girder/Beam	989	ft

Flagged Condition Description

Yellow Flag No. NB2228W017

Location: Span 196 Girder G19 at Pier 196.

Description: The right clip/connection angle of Girder G19 connection to pier cap at Pier 196 exhibits a 2-1/2" long vertical crack x 3/8" wide at the lower fillet section (deterioration induced cracking). The remaining section of the right clip connection angle has heavy corrosion and up to ¾" pack rust between the connection at the pier cap.

There has been no significant change since previous inspection.

This Yellow Flag No. NB2228W017 is superseding Yellow Flag No. NB2122W023.

Notes

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.27 inches and thickness of 0.608 inches and is located into the roadway, approximately 12" off the edge of curb line/safety walk above.
2. The left stiffener /connection angle Girder G19 to Pier 196 is not severely deteriorated and does not have deterioration induced cracking.
3. The adjacent Girder (left) G18, with a spacing of 5'-3" on center from G18, has repair plates and is in fair condition with up to 1/8" pitting at the top of the bottom flange for 5' in length.
4. The adjacent Stringer (right) S2, with a spacing of 2'-0" on center from G18, acts as a support for the railing and curb area above and has knife edge corrosion at the left side bottom flange angle for 3' long x 2" wide with up to 50% section loss.
5. A double left lane closure on 3rd Avenue Eastbound with shadow vehicle and a 35' bucket truck are required to access the flagged location.

Flag Photographs

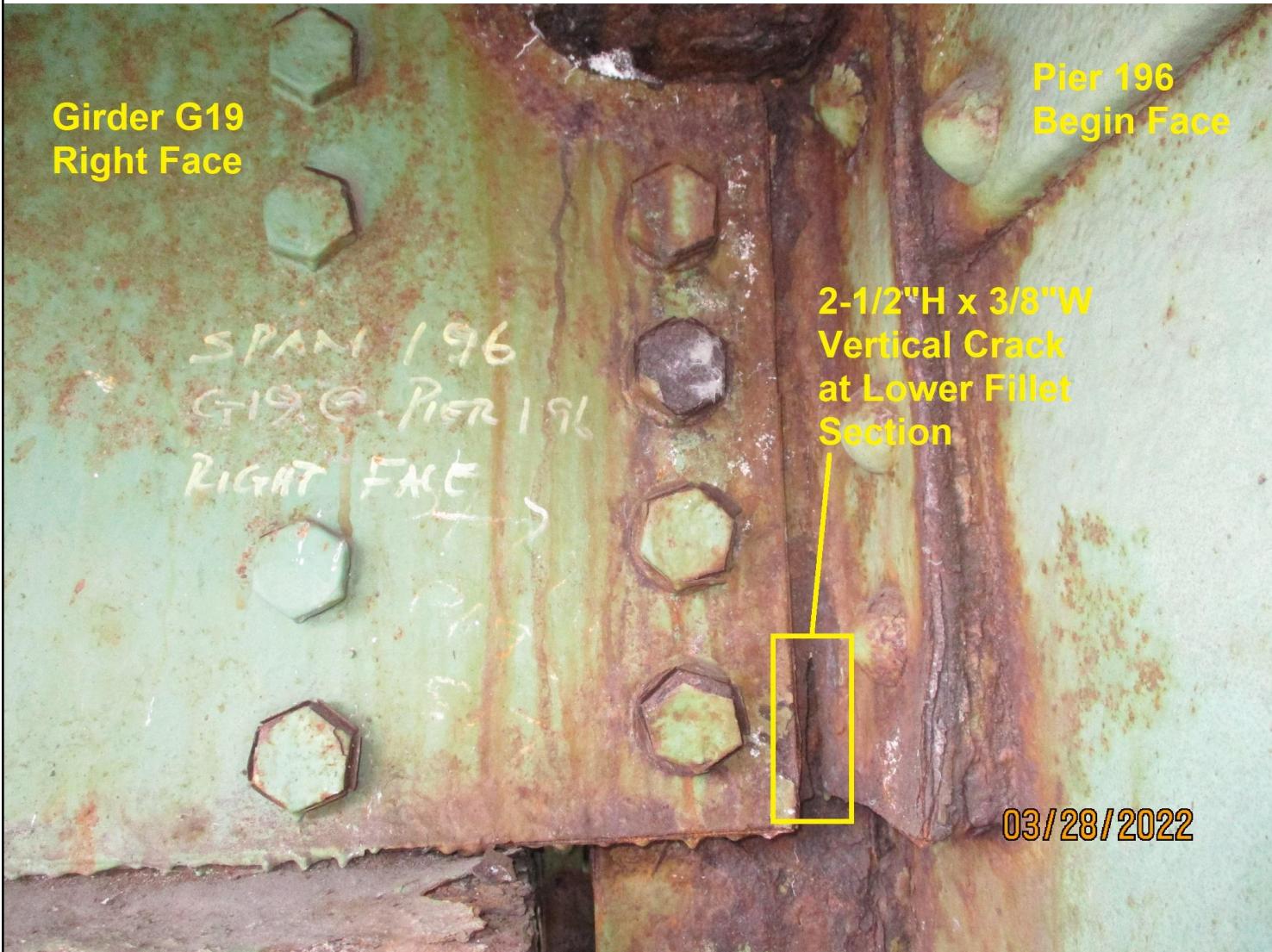
Photo Number: 1

Photo Filename: **IMG_9777.JPG**

Attachment Description: Photo 310-9777 - General view of the flagged condition at Girder G19 in Span 196 at Pier 196. Looking End.

Photo Number: 2

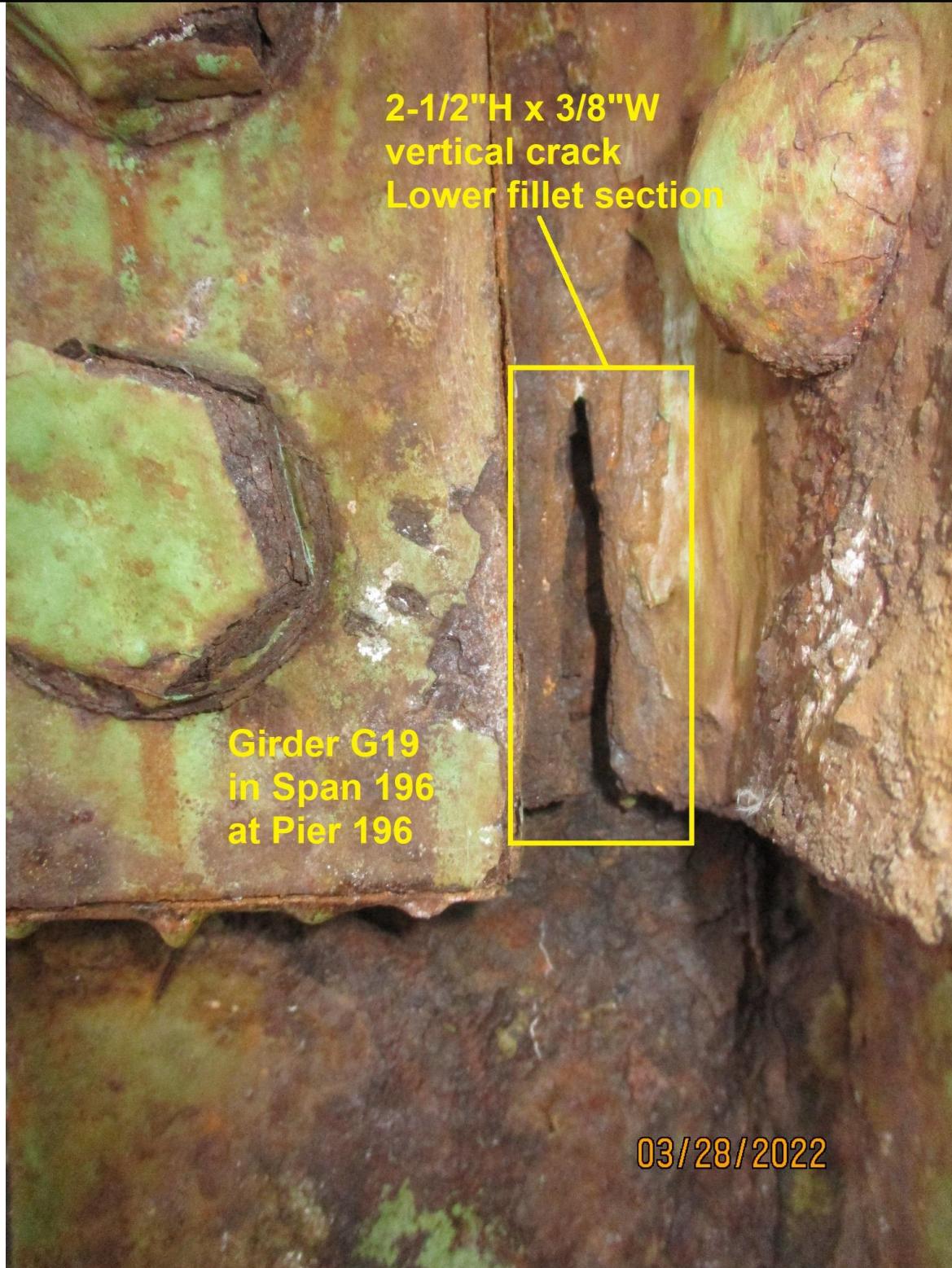
Photo Filename: IMG_9766.JPG



Attachment Description: Photo 310-9766 - The right connection angle of Girder 19 connect to the pier cap at Pier 196 exhibits a 2-1/2"H x 3/8"W vertical crack at the lower fillet section. Looking Left.

Photo Number: 3

Photo Filename: IMG_9767.JPG



Attachment Description: Photo 310-9767 - Close-up view of the right connection angle of Girder 19 connect to the pier cap at Pier 196 exhibits a 2-1/2"H x 3/8"W vertical crack at the lower fillet section. Looking Left.

Photo Number: 4

Photo Filename: Sketch SN196 G19 at Pier 196.jpg

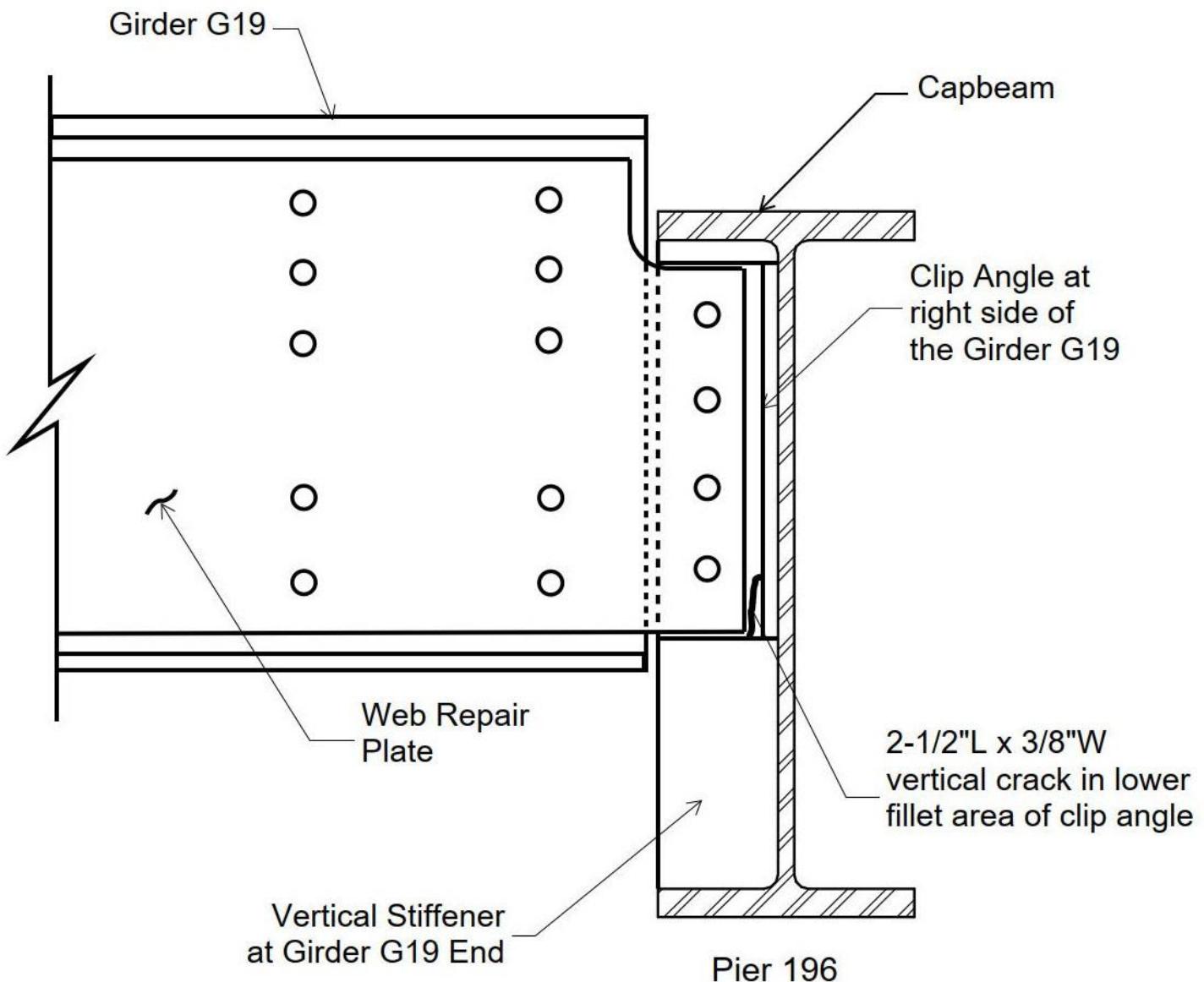
**SPAN 196, GIRDER G19 BEAM END AT PIER 196****(LOOKING LEFT)****N.T.S****Attachment Description: SN196 G19 at Pier 196 Sketch**

Photo Number: 5

Photo Filename: SN196_G19_Framing Plan - 2022-edit.jpg

LEGEND:

- E - Expansion Bearing Element PR311
- F - Fixed Connection
- G - Girder Element 107
- S - Stringer Element 113
- End of partial length cover plate. Category E' requires 100% Hands on Inspection.

Attachment Description: SN196 G19 at Pier 196 Framing